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PHOTOGRAPHIC INTELLIGENCE REPORT

AMMUNITION OR UNIDENTIFIED STORAGE INSTALLATIONS
IN THE SOVIET BLOC
HAVING MAXIMUM SECURITY AND BLAST PROTECTION
(BASED ON 1956 PHOTOGRAPHY)

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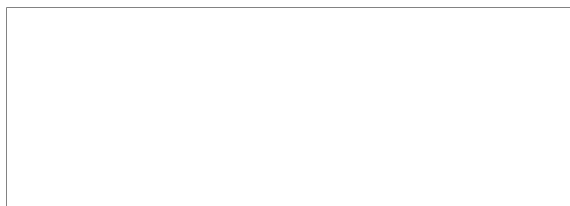


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HTA-R3-57

16 SEPTEMBER 1957



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**AMMUNITION OR UNIDENTIFIED STORAGE INSTALLATIONS
IN THE SOVIET BLOC
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(Based on 1956 Chess Photography)**

**HTA-R3-57
16 September 1957**

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Individual photographs of 72 additional installations

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I. INTRODUCTION

This report describes and locates Soviet and Satellite ammunition and unidentified storage installations employing maximum security measures and having some form of blast protection. Evidence of multiple security fencing or a combination of single fencing and guard towers and guard posts are considered maximum security measures. A comprehensive look at all such installations is provided rather than a detailed description of each one. An attempt has been made to identify possible patterns in Soviet military storage construction.

The material comprising this report is based on CHESSE photography obtained on nine missions flown over the USSR and the Satellites during 1956. Since this coverage is limited to a small portion of the Soviet Bloc a completely definitive study of Soviet storage practices is not possible.

II. METHODOLOGY

Initial preparation consisted of scanning photography covering approximately 320,000 square nautical miles of the USSR and five Satellites. Stereograms were prepared on all suspect ammunition and unidentified storage installations. Additional research was then conducted using World War II photography and collateral materials. This research, combined with photo analysis of the stereograms, provided such information as

location, security measures, type of blast protection, rail and road service, number of buildings, and age relative to World War II.

III. CRITERIA FOR COMPARISON OF INSTALLATIONS

In order to facilitate comparison, storage installations having blast protection and employing maximum security measures have been grouped into six categories according to similarity of physical layout.

Criteria for each category are as follows:

Group A (Small)

- Approximate size -- 800' x 1,600'
- Over-all shape -- Rectangular
- Service -- generally a single road in the form of a loop or small rectangle
- Buildings -- few in number and placed along the service road

Group B (Medium)

- Approximate size -- variable
- Over-all shape -- variable
- Service -- variable
- Buildings -- revetted buildings, earth-covered bunkers, or underground storage

Note: The distinctive characteristic of Group B installations is their construction in open areas where tree cover is not available for blast protection and camouflage.

Group C (Large)

- Approximate size -- 1,500' x 3,300'
- Over-all shape -- rectangular
- Service -- one or more roads parallel and perpendicular to the perimeter of the area
- Buildings -- Rectangular with gable roofs; not revetted; located along roads in woods

Group D (Very large)

- Approximate size -- 3,900' x 5,900'
- Over-all shape -- variable
- Service -- extensive network of parallel roads frequently accompanied by rail spurs
- Buildings -- an average of 60 with gable roofs; well-spaced along roads in woods

Group M (Miscellaneous)

These installations do not have all the characteristics of any of the other groups. Neither do they have enough characteristics in common to be classed as a particular type. The most significant installation in this group is located 7 nm NE of Stolptsy, USSR, and is covered in detail by CIA/HTA-M2-56.

Group S (Special weapons)

This group consists of the nine probable special weapons loading and storage areas as reported in CIA/HTA-M10-56 and CIA/HTA-M1-57.

IV. SUMMARY AND CONCLUSIONS

A total of 87 storage installations with blast protected buildings and maximum security protection were observed. Data tabulation sheets and photographs of these installations are included with this report. Figures 2 and 3 are maps showing their geographic locations. The chart, Figure 1, compares security measures employed at these installations.

Functionally, 53 are ammunition storage installations, 25 are unidentified, and nine are probable special weapons storage installations associated with major airfields in the USSR.

Age-wise, 25 installations were constructed before or during World War II, postwar construction can be confirmed for 50, leaving 12 for which date of construction cannot be determined. Data on time of construction, by country, is tabulated below:

<u>Date of construction</u>	<u>USSR</u>	<u>Rumania</u>	<u>Poland</u>	<u>Hungary</u>	<u>Czech</u>
Before or during WWII	12	1	6	3	0
Since WWII	26	4	6	5	1
Unknown	<u>1</u>	<u>1</u>	<u>4</u>	<u>1</u>	<u>5</u>
TOTAL	39	6	16	9	6

Comparison of the 87 installations fails to provide any indication of an over-all construction or layout pattern. On the contrary, local topography and numerous other contributing factors seem to have determined construction methods rather than any planned procedure. However, there are three significant exceptions to this over-all generalization.

One exception concerns the nine probable special weapons loading and storage installations associated with major airfields. Four of these installations, labeled the "Stryy-type", are located adjacent to Stryy, Karankut, Sol'tsy, and Minsk/Machulishche airfields. The layout of these four installations is practically identical. The other five, labeled the "Orsha-type", are located several miles each from the airfields at Orsha, Bobruysk, Siauliai, Baranovichi, and Bykhov. These five are practically identical in layout, but distinctly different from the "Stryy-type".

A second exception concerns two especially significant installations because of their peculiar construction features and possible connection with nuclear or guided missile programs. Although one of these installations is substantially cloud covered, and both are under construction, they appear to be strikingly similar. These installations and reports covering them in detail are: 9.5 nm WSW of Mozhaysk, USSR, CIA/HTA-R1-57; and 8 nm W of Valday, USSR, CIA/HTA-JR1-57.

A third possible exception involves three unidentified storage areas located within a 17 nm radius of Brno, Czechoslovakia, as follows: 3 NM NE of Blansko; 5 nm NNW of Vyskov; and 3.5 nm S of Ivancice. In addition to having the general similarities of Group A, all three have the following characteristics in common:

Three to five large warehouse buildings blast-protected by woods

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Two to four small buildings with elaborate revetments

A single paved road terminating in a small fork

Over-all size and shape similar

Location in wooded areas around Brno

Enclosed by a single security fence.

Although no over-all pattern in construction of installations having maximum security and blast protection has been identified, there is some evidence of certain trends. The post-World War II installations are generally much smaller than the old storage sites and have fewer buildings. However, many of the old ones have been vastly improved and reconstructed by the Soviets since World War II. This is true in the Satellites as well as in the USSR. It also seems to be a general practice to utilize natural features for blast-protection wherever possible rather than to construct elaborate blast walls or revetments.

Information on an additional 72 installations (26 in the USSR and 46 in the Satellites) make up an appendix to this report. While these installations met only certain portions of the requirement their significance was considered sufficient to justify inclusion of the completed research. Data tabulation sheets and photographs of these installations are included, and Figures 4 and 5 are maps showing their geographic distribution.

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REQUIREMENT: Prepared in answer to HTA/SI/R80/56 and CI/HTA
/R2/56 requesting an analysis of available photography to locate
and describe all maximum secured ammunition and unidentified
storage areas having revetted or blast protected buildings in the
USSR and the Satellites.

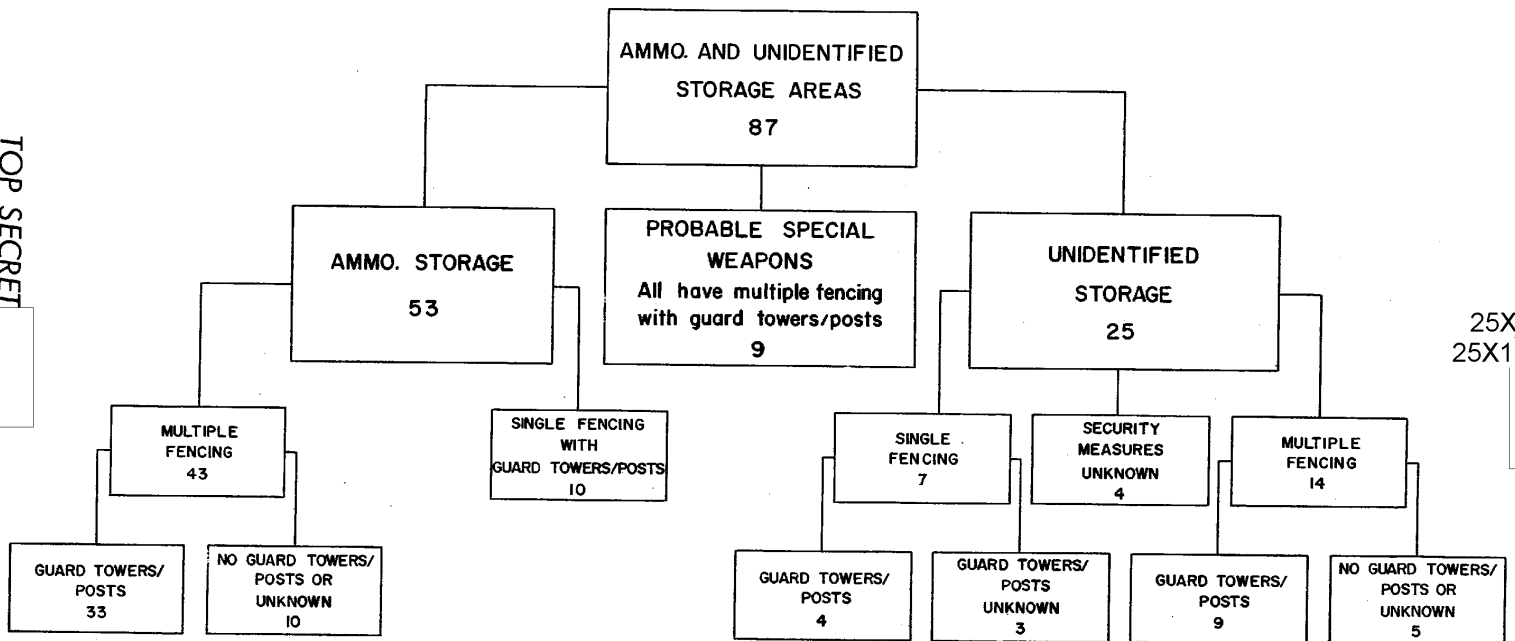
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Figure 1
MIA-10-57

MILITARY STORAGE AREAS
COMPARISON OF SECURITY MEASURES



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KEY TO TABULATION SHEETS

CTRY - Country

CZEC - Czechoslovakia
HUNG - Hungary
POL - Poland
RUM - Rumania
USSR - USSR

LOCALE -

NM - Nautical Miles
N,S,E,W - North, South, East, or West of the town stated.
A/F or AF - Airfield

COORD - Coordinates: latitude North and longitude East in all cases.

GROUP -

A,B,C,D - Groups described in the text
S - Special Weapons Areas
M - Miscellaneous types not falling into the other groups
(Delete GROUP in Appendix listing.)

FENCING - Security Fencing

S - Single
M - Multiple
N - None
U - Unknown

TWRS/POSTS - Guard Towers/Guard Posts

T - Guard Towers
P - Guard Posts
N - None
U - Unknown

BLAST PROT - Blast Protection

R - Revetted buildings or blast walls
H - Buildings of very heavy construction
W - Woods and spacing
G - Storage underground or earth-covered
N - None
U - Unknown

SERVICE - Rail / Road Service at the Installation

R - Rail
H - Road

BLDS - Number of Storage Buildings

43 - Approximate number of storage buildings
U - Unknown

AFFIL - Affiliated With

A - Airfield or Air Forces
G - Ground Forces
S - Sea Forces
T - Training area adjacent
P - Plant or Industry
U - Unknown

AGE -

O - Old (Constructed before or during World War II)
N - New (Constructed after World War II)
U - Unknown

WAC - World Aeronautical Chart Number

MISS/CAM/EXP - Mission, Camera, and Exposure Numbers

(Where an installation is covered by more than one mission,
the better coverage has been listed)

FUNCTION -

U/I - Unidentified
ST - Storage
PLT - Plant
XAMMO - Former ammo
FLC - Forced Labor Camp
VEH - Vehicle
U/C - Under Construction
A/C - Aircraft

(FUNCTION used only in Appendix listing.)

Note: The following symbols are used throughout the tabulation sheets

- Probable
* - Possible

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 AMMUNITION STORAGE AREAS

CTRY	LOCALE	COORD	GROUP	FENCING	TWRS/POSTS	BLAST PROT	SERVICE	BLDS	AFFIL	AGE	WAC	MISS/CAM/EXP
Czec	1.5 NM N Babice 4 NM SE Chotebor	5002/1443	C	S	T	W	H	U	U	N	231	
		4941/1546	D	S	P	W	HR	30	U	U	U	
Hung	1.5 NM W Etyek	4724/1843	B	M	T	RG	HR	16	G	O	252	
	Fokto	4630/1853	B	M	P	R	H	10	U	N	252	
	SE Kalocsa	4630/1900	B	M	N	R	H	12	*T	U	252	
	5 NM S Miskolc	4802/2046	M	M	*P	R	H	25	G	N	232	
	5.5 NM SW Monor	4716/1923	C	M	P	W	HR	30	U	O	251	
	5 NM NW Nyiregyhasa	4802/2139	D	*M	*T*P	WH	HR	24	U	N	232	
	Pusztavacs	4710/1929	D	*M	T	W	H	30	G	N	251	
	4.5 NM SSW Vasspreml	4701/1754	A	M	N	W	HR	5	P	O	252	
* Pol	12 NM N Bialystok	5320/2314	M	*M	U	R	14	P	N	168		
	2 NM W Briesg	5052/1725	B	M	*T	G	H	U	A	O	232	
	Bydgoszcz A/F	5305/1759	A	M	T	W*G	HR	U	A	N	169	
	2.5 NM WNW Bydgoszcz A/F	5307/1755	B	M	U	R	H	11	T	N	169	
	1.2 NM SW Gutsdorf	5317/1548	M	M	T	WG	HR	U	U	U	169	
	1 NM W Hammerstein	5341/1655	D	M	T	W	HR	34	*T	O	169	
	0.8 NM SW Linde	5335/1631	M	M	N	W	H	10	T	U	169	
	1 NM ESE Nassadel	5101/1747	D	M	N	W*G	HR	76	P	O	232	
	Regny	5142/1955	D	M	T	W	HR	50	G	O	232	
	2.5 NM S Swinemunde	5353/1415	D	S	T	WH	WR	17	S	O	169	
	1 NM N Torun	5303/1836	D	M	T	W	HR	90	A	O	169	
Rum	NW Constanta	4413/2837	B	M	P	R	H	7	U	O	250	
	Ianca A/F	4508/2726	B	S	T	R	H	10	A	N	250	
	NW Kogalniceanu A/F	4423/2827	B	M	TP	R	H	4	A	N	250	
	1 NM W Ovidiu	4415/2832	B	S	T*P	R	H	6	U	N	250	
USSR	2 NM S Baranovich A/F	5304/2603	C	*M	T	W	H	19	A	N	168	
	Baranovich A/F	5305/2601	M	*M	*T	H	15	A	N	168		
	Bobr	5419/2915	M	M	N	W	HR	24	U	O	168	
	Bobruysk A/F	5305/2914	M	*M	T	W	H	28	*A	N	168	
	1 NM NW Bronna Gora	5237/2504	M	M	T	W	HR	38	U	O	168	
	1 NM WNW Gysadek	4029/4939	B	S	P	R	H	6	U	U	325	
	2 NM N Jobvi	5924/2726	A	M	*T	W	HR	3	U	O	153	
	2 NM S Kushenikino	5742/3359	D	M	T	W	HR	117	U	O	154	
	Minsk/Machulishche A/F	5346/2735	M	M	*P	*G	H	14	A	N	168	
	2.5 NM NW Minsk/Mach	5348/2731	M	M	P	W	H	14	A	N	168	
	2 NM SE Moshaysk	5529/3603	D	M	T	W*G	HR	79	U	O	167	
	2 NM S Nomme	5921/2443	B	M	N	R	HR	27	U	O	153	
	4 NM NW Novgorod	5834/3112	M	*M	N	W	HR	16	U	O	153	
	1 NM NE Ogrre	5650/2438	M	*M	*T	W	HR	U	U	N	153	
	Orsha SW A/F	5427/3022	M	S	P	W*G	HR	24	A	O	167	
	7 NM W Rzhnev	5615/3408	C	*S	*T	W*G	HR	*40	U	O	154	
	1 NM SSW Sumgait RR St	4052/4936	B	M	*P	R	HR	12	U	O	325	
	1 NM E Vainode A/F	5625/2155	A	M	N	W	H	3	A	N	152	
	2.5 NM S Yashma	4040/4928	B	*M	*T	R	H	23	U	N	325	

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UNIDENTIFIED STORAGE AREAS

CTRY	LOCALE	COORD	GROUP	FENCING	TWRS/POSTS	BLAST PROT	SERVICE	BLDS	AFFIL	AGE	WAC	MISS/CAM/EXP
Czec	3 NM NE Blansko	4923/1641	A	S	U	WR	H	6	U	U	232	
	3.5 NM S Ivancice	4903/1623	A	S	*P	WR	H	9	U	U	232	
	4.5 NM W Tabor	4925/1433	M	S	U	W*H	H	13	U	U	231	
	5 NM NNW Vyskov	4920/1659	A	S	U	WR	H	9	U	U	232	
Hung	2 NM N Recsk	4758/2007	M	S	*P	*G	H	26	U	N	251	
Pol	2 NM N Dabrowa	5022/1910	A	*M	N	W	H	4	U	N	232	
	1.5 NM W Deep	5409/1522	A	*M	N	*G	HR	U	U	U	169	
	3 NM NE Guben	5158/1448	C	*M	*T	W	H	18	U	U	231	
	3 NM NW Lublin	5117/2230	A	*M	N	W	H	8	U	N	232	
Rum	1 NM N Zgierz	5151/1925	A	*M	U	W	H	4	U	N	232	
	Carol I	4422/2823	B	S	P	R	HR	13	U	U	250	
	1 NM NE Husi	4641/2805	B	*M	*T	R	H	5	U	N	250	
USSR	3 NM E Baden	4643/3002	A	M	T	H	HR	5	U	N	250	
	Briyani A/F	4558/2920	A	U	U	U	HR	U	A	N	250	
	Daugavpils	5554/2629	B	*M	*P	R	HR	6	G	O	168	
	9.5 NM WSW Moshaysk	5526/3546	M	M	T	H	U	U	U	N	167	
	6 NM E Ostipovichi	5320/2848	C	M	*T	W	HR	9	U	O	168	
	Ostrov Gorokhovka A/F	5715/2824	B	S	*T	*G	H	3	A	N	153	
	Ostrov Gorokhovka A/F	5717/2823	A	*M	T	G	HR	6	A	N	153	
	8 NM W Smolensk	5450/3149	A	M	P	G	H	6	U	N	167	
	2 NM NW Sol'tsy A/F	5810/3017	A	U	U	W	H	4	A	N	153	
	7 NM NE Stolptsy	5331/2655	M	M	U	G	HR	58	U	N	168	
	8 NM W Valday	5758/3303	M	*M	*T	H	H*R	U	U	N	154	
SPECIAL WEAPONS STORAGE AREAS												
USSR	Baranovich A/F	5304/2603	S	M	T	H	H	U	A	N	168	
	Bobruysk A/F	5302/2914	S	M	T	H	H	U	A	N	168	
	Bykhov A/F	5327/3007	S	M	T	H	H	U	A	N	167	
	Karankut A/F	4534/3417	S	*M	*T	*H	H	U	A	N	250	
	Minsk/Machulishche A/F	5346/2735	S	M	T	H	H	U	A	N	168	
	Orsha SW A/F	5422/3012	S	M	T	H	H	U	A	N	167	
	Siauliai A/F	5557/2329	S	M	T	U	H	U	A	N	168	
	Sol'tsy A/F	5808/3020	S	M	T	RH	H	U	A	N	153	
	Stryy A/F	4914/2347	S	M	T	RH	H	U	A	N	168	

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ADDITIONAL STORAGE AND SECURED INSTALLATIONS

CTRY	LOCALE	COORD	FENCING	TWRS/POSTS	BLAST PROT	SERVICE	BLDS	AFFIL	AGE	WAC	FUNCTION
Czec	1.5 NM NE Bohdalice	4914/1704	S	N	G	H	29	U	N	232	Ammo St
	2 NM SW Breclav	4844/1650	#S	U	U	HR	U	U	O	232	POL St
	1.5 NM ESE Jasenice	4932/1800	#S	N	W	H	20	P	U	232	Ammo St
	3.5 NM SW Kromeris	4916/1719	S	N	W	H	9	U	U	232	U/I
	7 NM SW Laun	5017/1340	#S	N	W	H	11	G	N	231	#Ammo St
	1.5 NM N Schritzens	4928/1537	S	N	W	H	20	P	U	231	*Ammo St
Hung	1 NM SSW Balatonalmadi	4701/1802	U	N	W	HR	50	U	U	252	U/I St
	1.5 NM NW Balatonfusszo	4705/1802	#S	N	R*G	HR	U	P	O	252	Ammo Plt
	Fokto A/F	4632/1859	#S	N	U	HR	10	A	N	252	#POL/Ammo
	4 NM SE Fulpessallas	4648/1919	S	U	W	HR	30	U	N	251	U/I St
	3.5 NM WSW Kecskemet	4653/1937	S	N	WR	H	13	G	U	251	Ammo St
	SE Monok	4812/2110	S	N	W	H	17	U	U	232	U/I St
	3 NM N Nagocs	4643/1754	*S	N	W	HR	14	U	U	252	U/I St
	6 NM NW Nagykoros	4705/1941	S	N	G	H	12	G	O	251	#Ammo St
	4 NM S Orkeny	4704/1926	#S	#P	W*G	HR	U	U	U	251	Ammo/*POL
	6 NM NE Papa	4725/1732	N	N	W	H	6	P	O	252	U/I Plt
	1.75 NM NW Veszprem	4707/1752	S	N	W*G	H	U	P	O	252	Ammo Plt
	6.5 NM NE Bunsiau	5122/1540	S	N	W	HR	20	T	O	231	Ammo St
Pol	3 NM NW Bydgoszcz	5309/1756	*M	#T	N	HR	28	G	O	169	Ammo St
	3.5 NM SE Ciesztchowa	5047/1912	M	N	N	H	7	U	O	232	U/I
	6 NM NE Debica	5007/2132	N	N	W	HR	U	P	O	232	Ammo Plt
	3.5 NM S Grotikau	5038/1732	N	N	G	H	3	U	O	232	U/I St
	3 NM W Hammersta	5342/1652	U	N	W	H	U	T	N	169	*VEH St
	1.5 NM SE Kluta	5320/1436	U	N	G	H	9	U	U	169	U/I St
	3.5 NM NW Kornik	5217/1702	#S	N	W	H	9	A	N	169	U/I St
	NW Kruppamuhle	5035/1836	N	N	R	HR	U	P	O	232	Ammo Plt
	6 NM SW Lecayca	5201/1904	#S	M	W	H	4	U	N	169	U/I St
	Legnowo	5305/1805	*M	N	R	HR	U	P	O	169	Ammo Plt
	8.5 NM NNE Lublin	5122/2241	N	N	W	HR	12	U	O	232	U/I St
	1 NM W Lussen	5101/1622	M	N	N	H	1	U	O	232	U/I
Rum	NE Markisch-Friedland	5323/1608	M	T	N	H	4	A	N	169	Ammo St
	Oswiec	5329/2239	*S	N	W	HR	50	U	N	168	Ammo St
	6 NM SE Otwock	5203/2124	N	N	#H	H	24	U	N	168	Ammo St
	Powida A/F	5223/1754	U	N	U	H	U	A	N	169	U/I
	Poznan A/F	5226/1649	S	N	#R	H	6	A	O	169	#Ammo St
	2 NM WNW Priebs	5130/1453	S	N	W	HR	30	U	O	231	Ammo St
	Skarsysko Kamienna	5106/2053	*S	U	R	HR	U	P	O	232	Ammo Plt
	S Swinemunde	5391/1416	N	N	G	H	8	S	O	169	U/I St
	2.5 NM SE Swinemunde	5353/1418	S	N	H	HR	40	S	O	169	Xammo St
	Bucharest	4420/2606	S	N	H	HR	U	G	O	251	Ammo St
	8 NM NE Cluj	4652/2245	S	U	RG	HR	21	G	U	251	Ammo St
	0.5 NM SE Valea Neagra	4417/2834	*M	N	N	H	N	U	N	250	#FLC
	1.5 NM NNW Vanatori	4415/2255	#S	N	W	H	14	U	U	251	U/I St
	4 NM NW Vasilu	4640/2735	N	N	W	H	15	U	N	250	U/I St

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APPENDIX (CONT.)

CTRY	LOCALE	COORD	FENCING	TWRS/POSTS	BLAST PROT	SERVICE	BLDS	AFFIL	AGE	WAC	MISS/CAM/EXP	FUNCTION
USSR	Baltiysk Noytif AF	5437/1952	N	N	H	H	12	A	O	169		Ammo St
	S Beresayka	5758/3354	M	T	N	HR	25	U	O	154		U/I St
	3 NM SW Bobr	5419/2911	S	T	N	H	15	U	N	168		*FLC
	5 NM S Bobruysk AF	5304/2912	U	U	W	H	8	*A	N	168		*Ammo St
	Bolshaya Ishora	5957/2932	U	N	W	HR	15	G	O	153		U/I Depot
	Bykhov AF	5330/3011	#S	T	N	H	14	A	N	167		Ammo St
	1.5 NM E Gatovo	5347/2741	S	U	W	HR	24	U	O	168		Ammo St
	4 NM NE Lesnaya	5302/2550	M	T	N	HR	10	G	N	168		Food St
	1.5 NM S Lesnaya	5258/2546	M	*T	N	HR	25	A	O	168		A/C Parts
	Liepaja	5634/2102	S	N	WG	HR	38	G	O	152		*Ammo St
	1.5 NM W Morino	5754/3019	*M	N	N	HR	29	U	O	153		U/I St
	Naro Fominsk	5522/3642	U	U	M	HR	33	U	O	167		POL St
	1 NM S Orsha SW AF	5424/3017	S	U	U	H	U	A	N	167		U/I & U/C
	Ostrov Gorokhovka AF	5719/2825	S	N	N	HR	28	A	N	153		U/I St
	1 NM NW Perkyarvi	6029/2915	*M	U	N	HR	10	U	U	103		U/I St
	2 NM E Porkhov	5746/2937	#S	N	N	H	25	G	O	153		Army St
	1.75 NM SW Pskov	5748/2818	S	N	R	H	8	G	N	153		*Ammo St
	Pushkin AF	5941/3025	N	N	R	H	7	A	O	153		*Ammo St
	3.5 NM SE Radviliskis	5546/2337	S	T	W	HR	30	P	N	168		Ammo Plt
	Riga West AF	5655/2357	S	N	N	H	14	A	N	153		Ammo St
	Saki SW AF	4506/3334	#M	*P	U	H	23	A	O	250		*Ammo St
	2 NM NE Sangachaly	4012/4931	M	#P	N	H	6	U	N	325		U/I St
	2 NM SE Shchuchin	5335/2447	S	U	N	H	12	A	U	168		*Ammo St
	1 NM SE Shuya	5650/4124	S	N	N	H	13	U	O	154		U/I St
	1.5 NM NE Siauliai AF	5554/2327	*M	*P	N	H	13	A	N	168		U/I St
	Sol'tey AF	5808/3025	S	*T	N	H	13	A	N	153		Ammo St

25X1

TOP SECRET —

25X1

TOP SECRET -

GROUP A (CONT)

GROUP A



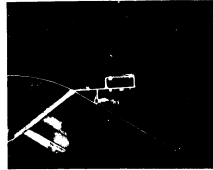
3NM NE BLANSKO, CZECH
49-23N 16-41E



3.5NM S IVANCICE, CZECH
49-03N 16-23E



5NM NNW VYSKOV, CZECH
49-20N 16-59E



2NM NW SOL'TSY A/F, USSR
58-10N 30-17E



OSTROV/GOROKHOVKA A/F, USSR
57-17N 28-23E

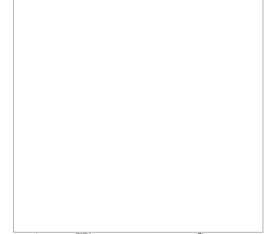
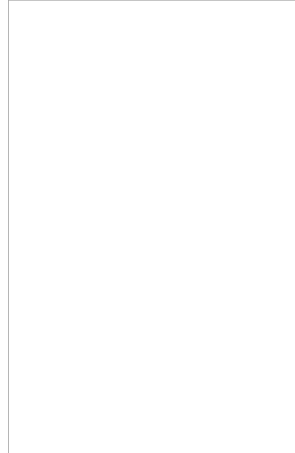


3NM E BADEN, USSR
46-43N 30-02E



BRIYENI A/F, USSR
45-58N 29-20E

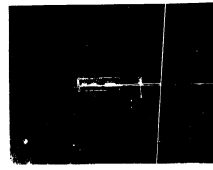
25X1



1NM E VAINODE A/F, USSR
56-25N 21-55E



4.5NM SSW VESZPREM, HUNG
47-01N 17-54E



2NM N JOHVI, USSR
59-24N 27-26E



8NM W SMOLENSK, USSR
54-50N 31-49E

25X1

TOP SECRET -

TOP SECRET

GROUP B (CONT.)

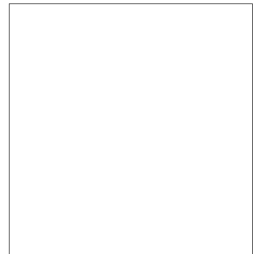
GROUP B



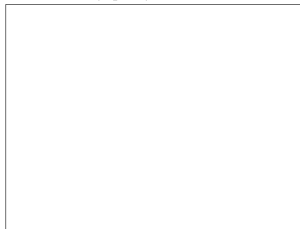
2NM S NOMME, USSR
59-21N 24-43E



NW CONSTANTA, RUM
44-13N 28-37E



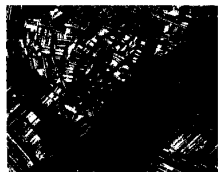
2.5NM S YASHMA, USSR
40-40N 49-28E



LANCA A/F, RUM
45-08N 27-26E



NW KOGALNICEANU A/F, RUM
44-23N 28-27E



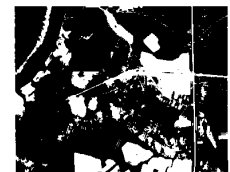
FOKTO, HUNG
46-30N 18-53E



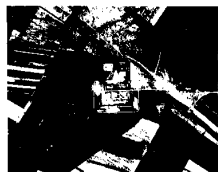
1.5NM W ETYEK, HUNG
47-24N 18-43E



1NM NE HUSI, RUM
46-41N 28-05E



OSTROV/GOROKHOVKA A/F, USSR
57-15N 28-24E



1NM W OVIDIU, RUM
44-15N 28-32E



CAROL I, RUM
44-22N 28-23E



1NM SSW SUMGAIT RR ST, USSR
40-32N 49-36E



1NM WNW GYUZDEK, USSR
40-29N 49-39E



DAUGAVPILS, USSR
55-54N 26-29E



SE KALOCSA, HUNG
46-30N 19-00E

TOP SECRET

25X1

25X1

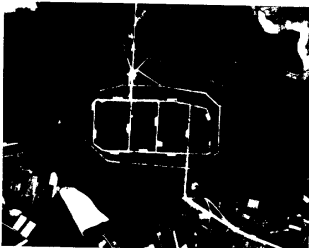
25X1

25X1

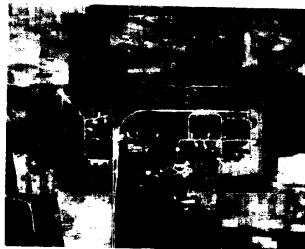
TOP SECRET

25X1

GROUP C



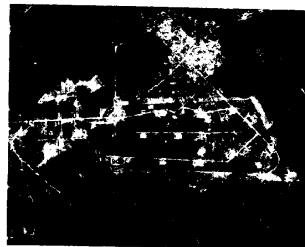
1.5NM N BABICE, CZECH
50-02N 14-43E



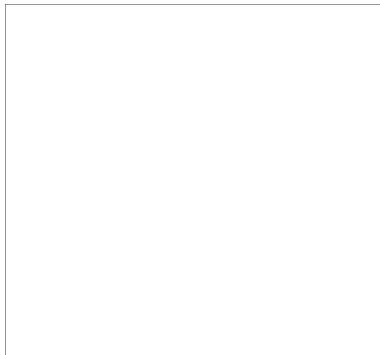
5.5NM SW MONOR, HUNG
47-16N 19-23E



2NM S BARANOVICHI A/F, USSR
53-04N 26-03E



6NM E OSIPOVICH, USSR
53-20N 28-48E



7NM W RZHEV, USSR
56-15N 34-08E

25X1
25X1

TOP SECRET

25X1

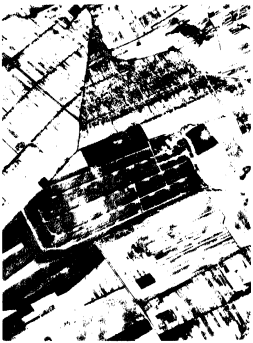
25X1

TOP SECRET

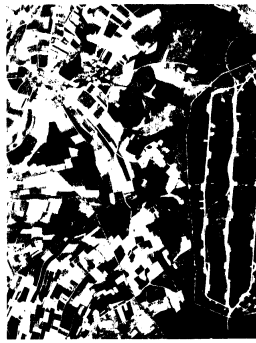
25X1

25X1

GROUP D



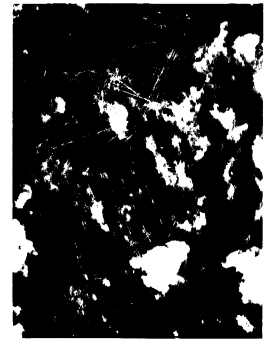
5NM NW NYIREGYHAZA, HUNG
48-02N 21-39E



4NM SE CHOTEBOR, CZECH
49-41N 15-46E

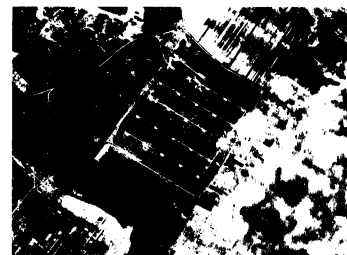


2NM SE MOZHAYSK, USSR
55-29N 36-03E



2NM S KUZHENKINO, USSR
57-42N 33-59E

25X1



PUSZTAVACS, HUNG
47-10N 19-29E

TOP SECRET

25X1

GROUP M

TOP SECRET

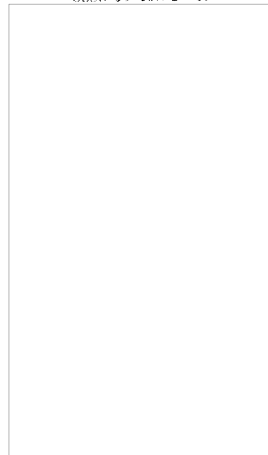
GROUP M (CONT.)



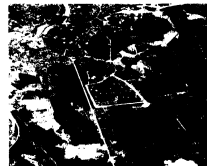
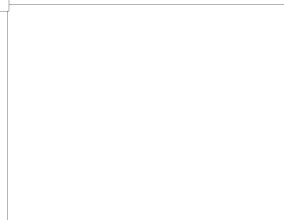
MINSK/MACHULISCHE A/F, USSR
53-46N 27-35E



2.5NM NW MINSK/MACHULISCHE A/F,
USSR 53-48N 27-31E



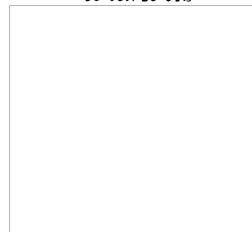
4NM NW NOVGOROD, USSR
58-34N 31-12E



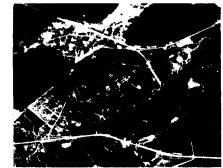
1NM NE OGRE, USSR
56-50N 24-38E



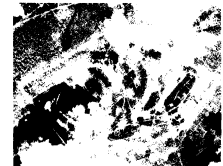
BARANOVICHI A/F, USSR
53-05N 26-01E



2NM N RECSK, HUNG
47-58N 20-07E



BOBR, USSR
54-19N 29-15E



1NM NW BRONNA GORA, USSR
52-37N 25-04E



ORSHA SW A/F, USSR
54-27N 30-22E



BOBRUYSK A/F, USSR
53-05N 29-14E



4.5NM W TABOR, CZECH
49-25N 14-33E

25X1

25X1

25X1

25X1

25X1

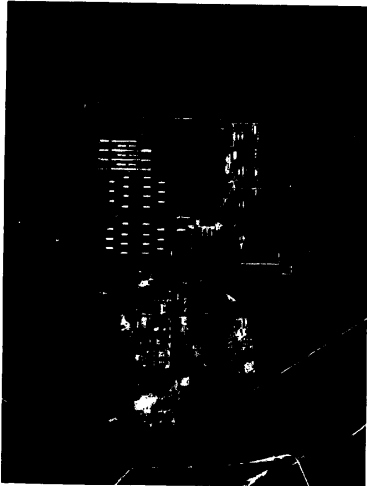
25X1

TOP SECRET

GROUP M (CONT.)

TOP SECRET -

25X1

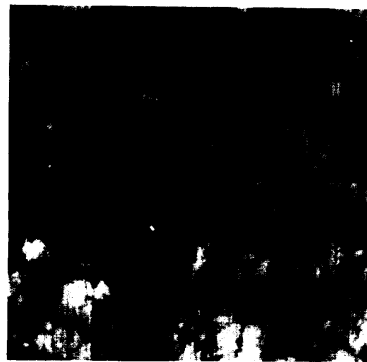
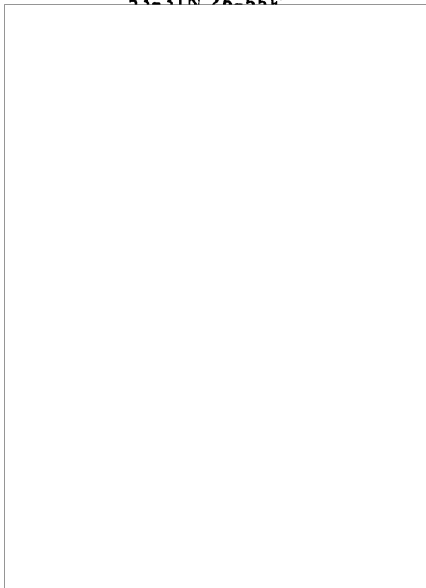


7NM NE STOLPTS, USSR
53-31N 26-55E



5NM S MISKOLC, HUNG
48-02N 20-46E

25X1



8NM W VALDAY, USSR
57-58N 33-03E



9.5NM WSW MOZHAYSK, USSR
55-26N 35-46E

TOP SECRET -

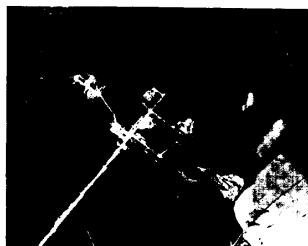
25X1

GROUP S

ORSHA TYPE

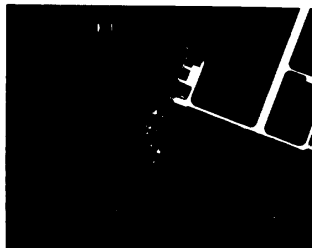
TOP SECRET -

25X1



ORSHA SW A/F, USSR
54-22N 30-12E

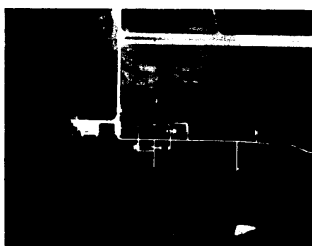
STRYY TYPE



STRYY A/F, USSR
49-14N 23-47E



BYKHOV A/F, USSR
53-27N 30-07E



SOL'TSY A/F, USSR
58-08N 30-20E



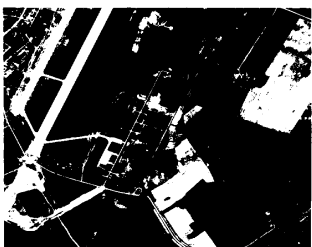
BOBRUYSK A/F, USSR
53-02N 29-14E



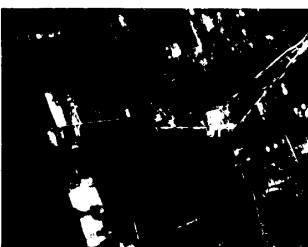
KARANKUT A/F, USSR
45-34N 34-17E



BARANOVICHI A/F, USSR
53-04N 26-03E



MINSK/MACHULISCHE A/F, USSR
53-46N 27-35E



SIAULIAI A/F, USSR
55-57N 23-29E

TOP SECRET -

25X1

APPENDIX

ADDITIONAL STORAGE AND SECURED INSTALLATIONS

TOP SECRET - [REDACTED]

25X1

APPENDIX (CONT.)

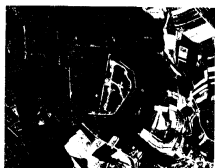
THIS APPENDIX IS COMPOSED OF PHOTOGRAPHY AND A TABULATION OF INFORMATION CONCERNING 72 INSTALLATIONS WHICH WERE BY-PRODUCTS OF THE RESEARCH DONE IN PREPARING THE MAIN BODY OF THIS REPORT. THESE INSTALLATIONS MET ONLY CERTAIN PORTIONS OF THE PROJECT REQUIREMENTS BUT ARE SIGNIFICANT ENOUGH TO BE INCLUDED IN THIS APPENDIX.



1.5NM ESE JASENICE, CZECH
49-32N 18-00E



1.5NM NE BOHDALICE, CZECH
49-14N 17-04E



7NM SW LAUN, CZECH
50-17N 13-40E



3.5NM SW KROMERIZ, CZECH
49-16N 17-19E



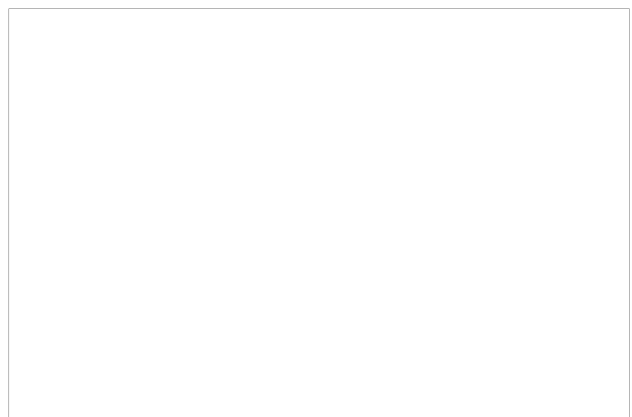
1.5NM N SCHRITTENZ, CZECH
49-28N 15-37E



2NM SW BRECLAV, CZECH
48-44N 16-50E

TOP SECRET - [REDACTED]

25X1



1NM SSW BALATONALMADI,
HUNG, 47-01N 18-02E



1.5NM NW BALATONFUZFO,
HUNG, 47-05N 18-02E



FOKTO A/F, HUNG
46-32N 18-59E



4NM SE FULOPSZALLAS,
HUNG, 46-48N 19-19E



3.5NM WSW KECZKEMET,
HUNG, 46-53N 19-37E



SE MONOK, HUNG
48-12N 21-10E

APPENDIX (CONT.)

TOP SECRET - [REDACTED]

APPENDIX (CONT.)

25X1

25X1



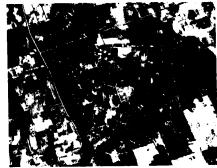
3NM N NAGOC, HUNG
46-43N 17-54E



4NM S ORKENY, HUNG
47-04N 19-26E



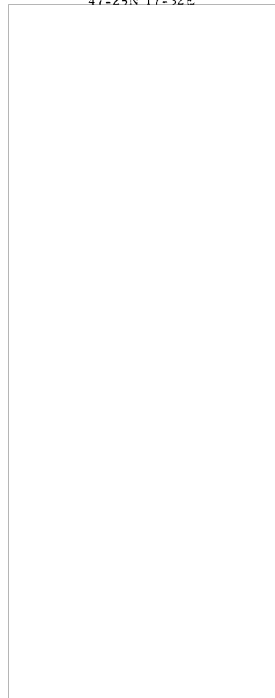
1.75NM NW VESZPREM, HUNG
47-07N 17-52E



6NM NW NAGYKOROS, HUNG
47-05N 19-41E



6NM NE PAPA, HUNG
47-25N 17-32E



TOP SECRET - [REDACTED]

25X1

25X1

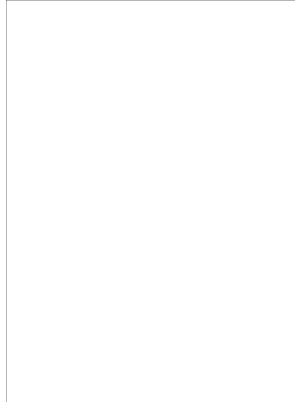
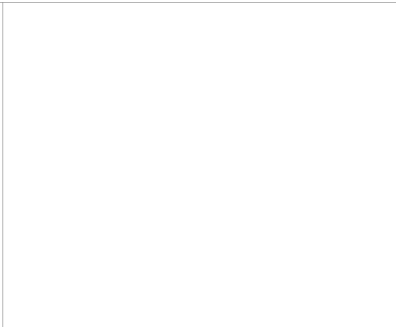
25X1

APPENDIX (CONT.)

TOP SECRET —

APPENDIX (CONT.)

25X1
25X1
25X1



8NM NE CLUJ, RUM
46-52N 22-45E

25X1

25X1



BUCHAR EST, RUM
44-26N 26-06E



0.5NM SE VALEA NEAGRA, RUM, 44-17N 28-34E

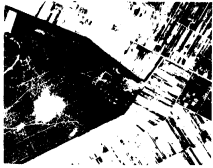
TOP SECRET —

APPENDIX (CONT.)

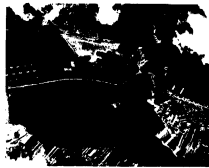
TOP SECRET

APPENDIX (CONT.)

25X1



1.5NM NNW VANATORI, RUM
44-15N 22-55E



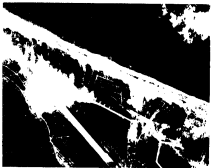
4NM NW VASLUI, RUM
46-40N 27-35E



1.5NM S LESNAYA, USSR
52-58N 25-46E



LIEPAJA, USSR
56-34N 21-02E



BALTIYSK NOYTIF A/F, USSR
54-37N 19-52E



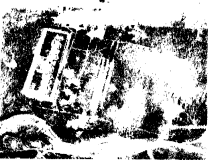
S BEREZAYKA, USSR
57-58N 33-54E



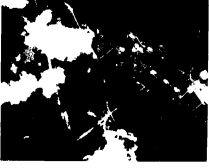
1.5NM W MORINO, USSR
57-54N 30-19E



NARO FOMINSK, USSR
55-22N 36-42E



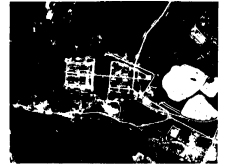
3NM SW BOBR, USSR
54-19N 29-11E



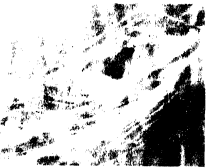
5NM S BOBRUYSK A/F, USSR
53-04N 29-12E



1NM S ORSHA SW A/F,
USSR, 54-24N 30-17E



OSTROV GOROKHOVKA A/F
USSR, 57-19N 28-25E



BOLSHAYA IZHORA, USSR
59-57N 29-32E



BYKHOV A/F, USSR
53-30N 30-11E



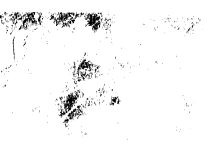
1NM NW PERKYARVI, USSR
60-29N 29-15E



2NM E PORKHOV, USSR
57-46N 29-37E



1.5NM E GATOVO, USSR
53-47N 27-41E



4NM NE LESNAYA, USSR
53-02N 25-50E



1.75NM SW PSKOV, USSR
57-48N 28-18E



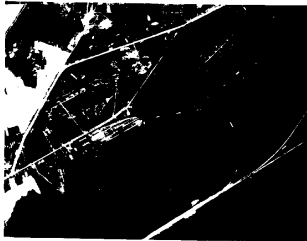
PUSHKIN A/F, USSR
59-41N 30-25E

TOP SECRET

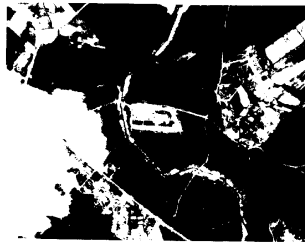
25X1

APPENDIX (CONT.)

TOP SECRET - 25X1



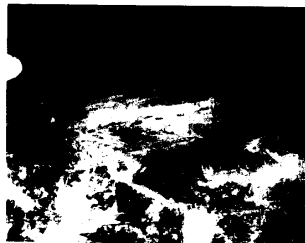
3.5NM SE RADVILISKIS,
USSR, 55-46N 23-37E



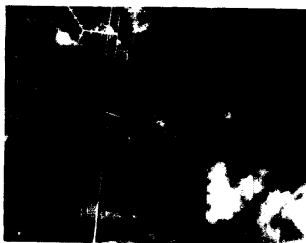
PIGA WEST A/F, USSR
56-55N 23-57E



SAKI SW A/F, USSR
45-06N 33-34E



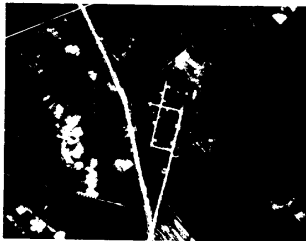
2NM NE SANGACHAI Y,
USSR, 40-12N 49-31E



2 NM SE SHCHUCHIN, USSR
53-35N 24-47E



1NM SE SHUYA, USSR
56-50N 41-24E



1.5NM NE SIAULIAI A/F,
USSR, 55-54N 23-27E



SOL'TSY A/F, USSR
58-08N 30-25E

TOP SECRET - 25X1

~~TOP SECRET~~ [REDACTED]

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A
L
E
N
T

~~TOP SECRET~~ [REDACTED]